

10/044,543

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## Search Results -

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Database: 
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 US Pre-Grant Publication Full-Text Database  
 JPO Abstracts Database  
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 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

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**Set Name Query**  
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DB=USPT; PLUR=YES; OP=OR

<u>L8</u>	L7 not l3	5	<u>L8</u>
<u>L7</u>	L6 and l1	6	<u>L7</u>
<u>L6</u>	l4 or L5	1018	<u>L6</u>
<u>L5</u>	zhou.in.	981	<u>L5</u>
<u>L4</u>	singletary.in.	38	<u>L4</u>
<u>L3</u>	l1 and L2	1	<u>L3</u>
<u>L2</u>	curcuma	558	<u>L2</u>
<u>L1</u>	starch adj (synthase\$ or synthetase\$)	142	<u>L1</u>

END OF SEARCH HISTORY

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L3: Entry 1 of 1

File: USPT

Jul 23, 2002

US-PAT-NO: 6423886

DOCUMENT-IDENTIFIER: US 6423886 B1

TITLE: Starch synthase polynucleotides and their use in the production of new starches

DATE-ISSUED: July 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singletary; George W.	Ankeny	IA		
Zhou; Lan	Johnston	IA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Pioneer Hi-Bred International, Inc.	Des Moines	IA				02

APPL-NO: 09/ 388743 [PALM]

DATE FILED: September 2, 1999

INT-CL: [07] C12 N 15/29, C12 N 15/82, C12 P 19/04, A01 H 5/00, A01 H 5/10

US-CL-ISSUED: 800/284; 800/286, 800/305, 800/306, 800/312, 800/314, 800/315, 800/317.1, 800/317.2, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3, 800/322, 435/69.1, 435/320.1, 435/419, 536/23.6, 536/24.5, 536/23.2

US-CL-CURRENT: 800/284; 435/320.1, 435/419, 435/69.1, 536/23.2, 536/23.6, 536/24.5, 800/286, 800/305, 800/306, 800/312, 800/314, 800/315, 800/317.1, 800/317.2, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3, 800/322

FIELD-OF-SEARCH: 536/23.6, 536/24.5, 536/23.2, 435/69.1, 435/320.1, 435/419, 800/284, 800/286, 800/305, 800/306, 800/312, 800/314, 800/317.1, 800/315, 800/317.2, 800/317.4, 800/320, 800/320.1-320.3, 800/322

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5824790	October 1998	Keeling et al.	536/23.6
<input type="checkbox"/>	6130367	October 2000	Kossmann	800/284

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2205118	May 1996	CA	
WO 97/20936	June 1997	WO	
WO 97/26362	July 1997	WO	
WO 97/45545	December 1997	WO	

## OTHER PUBLICATIONS

Kossmann, J. et al., "Transgenic plants as a tool to understand starch biosynthesis." 1995, Progress in Biotechnol., vol. 10, pp. 271-278.\*

Denyer, K. et al. "Identification of multiple isoforms of soluble and granule-bound starch synthase in developing wheat endosperm." 1995, Planta, vol. 196, pp. 256-265.\*

Nakatani, M. et al., "Relationship between Starch Content and Activity of Starch Synthase and ADP-glucose Pyrophosphorylase in Tuberous Root of Sweet Potato." 1992, Jpn. J. Crop Sci., vol. 61, pp. 463-468.\*

Salehuzzaman, S. et al., "Isolation and characterization of a cDNA encoding granule-bound starch synthase in cassava (*Manihot esculenta* Crantz) and its antisense expression in potato." 1993, Plant Molecular Biology, vol. 23, pp. 947-962.\*

Dry, I. et al., "Characterization of cDNAs encoding two isoforms of granule-bound starch synthase which show differential expression in developing storage organs of pea and potato," 1992, The Plant Journal, vol. 2, pp. 193-202.

ART-UNIT: 1638

PRIMARY-EXAMINER: Fox; David T.

ATTY-AGENT-FIRM: Pioneer Hi-Bred International, Inc.

## ABSTRACT:

The invention provides isolated nucleic acids and their encoded proteins that are involved in starch biosynthesis. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions. The present invention provides methods and compositions relating to altering the amount and/or morphology of starch in plants.

56 Claims, 0 Drawing figures

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 5 of 5 returned.**☐ 1. Document ID: US 6399859 B1

L8: Entry 1 of 5

File: USPT

Jun 4, 2002

US-PAT-NO: 6399859

DOCUMENT-IDENTIFIER: US 6399859 B1

TITLE: Plant uridine diphosphate-glucose dehydrogenase genes, proteins, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 2. Document ID: US 6232529 B1

L8: Entry 2 of 5

File: USPT

May 15, 2001

US-PAT-NO: 6232529

DOCUMENT-IDENTIFIER: US 6232529 B1

TITLE: Methods of producing high-oil seed by modification of starch levels

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 3. Document ID: US 6013861 A

L8: Entry 3 of 5

File: USPT

Jan 11, 2000

US-PAT-NO: 6013861

DOCUMENT-IDENTIFIER: US 6013861 A

TITLE: Plants and processes for obtaining them

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments		KWIC
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☐ 4. Document ID: US 5859333 A

L8: Entry 4 of 5

File: USPT

Jan 12, 1999

US-PAT-NO: 5859333

DOCUMENT-IDENTIFIER: US 5859333 A

TITLE: Plants and processes for obtaining them

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KVMC

☐ 5. Document ID: US 5792920 A

L8: Entry 5 of 5

File: USPT

Aug 11, 1998

US-PAT-NO: 5792920

DOCUMENT-IDENTIFIER: US 5792920 A

TITLE: Plants with altered ability to synthesize starch and process for obtaining them

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KVMC

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Terms	Documents
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